

Additional file 2: Screen shot of order set

COPD Acute Exacerbation Orders - Order1, Set

Order1_Set
FMC-21-223-2

Unreviewed Allergies

2160020984 / 100041602180
Canada, Albert A

68y (1947-May-18) Male

COPD Acute Exacerbation Orders [10 orders of 55 are selected]

This order set contains interventions and therapies specific to COPD management. Use an admission order set for general admission orders.

Diagnostic Imaging

Order	Date Requested For	Priority	Portable	Clinical Info for Radiologist	Additional Info to DI Tech
Diagnostic Imaging - 2 item(s)					
<input type="checkbox"/> GR Chest, 2 Projections	T	Routine	<input type="checkbox"/>		
<input type="checkbox"/> GR Chest, 1 Projection	T	Routine	<input type="checkbox"/>		

Cardiovascular Labs

Order	Indication	Priority	Additional Information
Cardiovascular Labs - 3 item(s)			
<input type="checkbox"/> Electrocardiogram	COPD	Routine	
<input type="checkbox"/> Electrocardiogram	Chest Pain	Routine	Conditional Order for activation if patient has Chest...
<input type="checkbox"/> Troponin		Routine	

Arterial Blood Gas

Order	Date Requested	Collection Time/Priority	Test Done On	Frequency	Site	Additional Information
Arterial Blood Gas - 1 item(s)						
<input type="checkbox"/> Blood Gas Arterial Request	T	Routine	Room Air	once	Radial Artery	If patient can tolerate room air.

Microbiology

☐ Sputum Bacterial Culture

Other Laboratory Tests

☐ Theophylline LEVEL

Respiratory Therapy

Order	Maintain SpO2 (%) >=	OR SpO2 Between	To	Additional Information
O2 Therapy - 2 item(s)				
<input checked="" type="checkbox"/> O2 Therapy - Titrate to Saturation		88	92	
<input type="checkbox"/> O2 Therapy - Titrate to Saturation				

Order	Date Requested	Additional Information
Non-Invasive Ventilation - 1 item(s)		
<input type="checkbox"/> Acute Respiratory Failure Protocol	T	

HI/DVT Prophylaxis - Medical Conditions

Order	Dose	Unit	Route	Frequency	Start Priority	Additional Information
DVT Prophylaxis - 2 item(s)						
<input type="checkbox"/> heparin inj	5,000	unit(s)	SUBCUTANEOUSLY	q8h	Routine	Continue until discharge and/or fully ambulant
<input checked="" type="checkbox"/> heparin inj	5,000	unit(s)	SUBCUTANEOUSLY	q12h	Routine	Continue until discharge and/or fully ambulant

Medications - ACUTE

Drug Info

OK Cancel

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Medications - ACUTE

Inhaled Bronchodilators - Metered Dose Inhaler with aerosolchamber (MDI - preferred option)

Order	Strength and/or Components	Dose	Unit	Route	Frequency	PRN	Start Priority	Additional Information
Bronchodilators - 3 item(s)								
<input checked="" type="checkbox"/> salbutamol inhaler	(Each puff delivers 100...	2	puff(s)	INHALED	q4h	<input type="checkbox"/>	Routine	WHILE AWAKE
<input checked="" type="checkbox"/> salbutamol inhaler	(Each puff delivers 100...	2	puff(s)	INHALED	q1h	<input checked="" type="checkbox"/>	Routine	If 3 consecutive doses required, call...
<input checked="" type="checkbox"/> ipratropium inhaler	(Each puff delivers 20...	4	puff(s)	INHALED	q4h	<input type="checkbox"/>	Routine	WHILE AWAKE

Nebulized Bronchodilators - Only if cannot tolerate MDI

Oxygen is preferred delivery gas for all nebulized medications. Compressed air can be used as the delivery gas in the following situations: 1 - COPD with hypercapnia, 2 - Past exposure to bleomycin, 3 - Central hypoventilation known or suspected.

Order	Strength and/or Components	Dose	Unit	Gas for Nebulizer	Frequency	PRN	Start Priority	Additional Information
Nebulized Bronchodilators - 6 item(s)								
<input type="checkbox"/> ipratropium / salbutamol neb soln	(Each 2.5 mL nebule contains 0.5...	2.5	mL	via oxygen	q4h	<input type="checkbox"/>	Routine	Review after 48 hours
<input type="checkbox"/> ipratropium / salbutamol neb soln	(Each 2.5 mL neb provides 0.5 mg...	5	mL	via oxygen	q4h	<input type="checkbox"/>	Routine	Review after 48 hours
<input type="checkbox"/> salbutamol neb soln		2.5	mg	via oxygen	q4h	<input type="checkbox"/>	Routine	Review after 48 hours
<input type="checkbox"/> salbutamol neb soln		5	mg	via oxygen	q4h	<input type="checkbox"/>	Routine	Review after 48 hours
<input type="checkbox"/> ipratropium neb soln	(Each mL contains 250...	250	microgram	via oxygen	q6h	<input type="checkbox"/>	Routine	Review after 48 hours
<input type="checkbox"/> ipratropium neb soln	(Each mL contains 250...	500	microgram	via oxygen	q6h	<input type="checkbox"/>	Routine	Review after 48 hours

Corticosteroids

Order	Dose	Unit	Route	Frequency	Start Priority	Advisory Note	Additional Information
Corticosteroids - 4 item(s)							
<input checked="" type="checkbox"/> prednisONE tab	50	mg	PO	daily	ASAP		
<input type="checkbox"/> prednisONE tab		mg	PO		ASAP		
<input type="checkbox"/> hydrocortisone Na succinate inj		mg	IVPB		ASAP	Switch to oral medications when possible.	Review after 48 hours
<input type="checkbox"/> methylPREDNISolone Na succinate inj		mg	IVPB		ASAP	Switch to oral medications when possible.	Review after 48 hours

Antimicrobials

Patients with pneumonia on CXR may require different antibiotics.

Complicated COPD Definition: FEV1 < 50% predicted, ≥ 4 exacerbations/year, ischemic heart disease, chronic oral steroid. Simple COPD Definition: FEV1 > 50% predicted, < 4 exacerbations/year, age < 65 years, no comorbidities.

Recommended for complicated COPD

Order	Strength and/or Components	Dose	Unit	Route	Frequency	Start Priority	Advisory Note	Start Date	Additional Information
Antimicrobials - 3 item(s)									
<input type="checkbox"/> amoxicillin / clavulanate tab	875 (Each...	1	tab	PO	bid	ASAP		T	Review after 7 days.
<input type="checkbox"/> levofloxacin tab		500	mg	PO	daily	ASAP		T	Review after 7 days.
<input type="checkbox"/> levofloxacin tab		250	mg	PO	daily	ASAP	If CrCl is 20 - 49.		Review after 7 days.

Recommended for simple COPD

Order	Strength and/or Components	Dose	Unit	Route	Frequency	Start Priority	Start Date	Additional Information
Antimicrobials - 8 item(s)								
<input type="checkbox"/> amoxicillin cap		500	mg	PO	tid	ASAP	T	Review after 7 days.
<input type="checkbox"/> Azithromycin tab		500	mg	PO	once	ASAP	T	Initial loading dose. Follow with daily dose.
<input type="checkbox"/> Azithromycin tab		250	mg	PO	daily	Routine	T+1	Daily dose. Start following loading dose. Review...
<input type="checkbox"/> cefuroxime tab		500	mg	PO	bid	ASAP	T	Review after 7 days.

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<input type="checkbox"/> amoxicillin cap		500	mg	PO	tid		ASAP	T	Review after 7 days.
<input type="checkbox"/> AZITHROMYCIN tab		500	mg	PO	once		ASAP	T	Initial loading dose. Follow with daily dose.
<input type="checkbox"/> AZITHROMYCIN tab		250	mg	PO	daily		Routine	T+1	Daily dose. Start following loading dose. Review...
<input type="checkbox"/> cefuroxime tab		500	mg	PO	bid		ASAP	T	Review after 7 days.
<input type="checkbox"/> clarithromycin tab		500	mg	PO	bid		ASAP	T	Review after 7 days.
<input type="checkbox"/> doxycycline cap		200	mg	PO	once		ASAP	T	Initial loading dose. Follow with daily dose.
<input type="checkbox"/> doxycycline cap		100	mg	PO	bid		Routine	T+1	Daily dose. Start following loading dose. Review...
<input type="checkbox"/> sulfamethoxazole / trimethoprim DS tab	(Each tab...	1	tab	PO	bid		ASAP	T	Review after 7 days.

Medications - MAINTENANCE

Order	Strength and/or Components	Dose	Unit	Route	Frequency	PRN	Start Priority	Additional Information
Long Acting Bronchodilators - 3 item(s)								
<input type="checkbox"/> formoterol turbuhaler	(Each puff delivers 12...	1	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	
<input type="checkbox"/> salmeterol diskus	(Each puff delivers 50...	1	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	
<input type="checkbox"/> tiotropium inhalation cap		18	microgram	INHALED	daily		<input type="checkbox"/> Routine	
Combination Therapy - 5 item(s)								
<input type="checkbox"/> ADVAIR inhaler	(Each puff delivers 25...	2	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	
<input type="checkbox"/> ADVAIR inhaler	(Each puff delivers 25...	2	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	
<input type="checkbox"/> ADVAIR diskus	(Each puff delivers 50...	1	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	
<input type="checkbox"/> ADVAIR diskus	(Each puff delivers 50...	1	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	
<input type="checkbox"/> SYMBICORT turbuhaler	(Each puff delivers 200...	2	puff(s)	INHALED	bid		<input type="checkbox"/> Routine	

Nicotine Replacement

Use the order set Nicotine Replacement Therapy to order appropriate therapy.

Consults

Order	Date Requested For	Priority	Reason for Referral	Reason for Referral	Planned Discharge Date	Reason for Referral
Consults - 3 item(s)						
<input checked="" type="checkbox"/> Physiotherapy - Assess and Treat	2016-Apr-18	Routine	AECOPD early mobilization			
<input type="checkbox"/> Occupational Therapy - Assess and Treat	T	Routine		AECOPD functional...		
<input checked="" type="checkbox"/> COPD & Asthma Educator					2016-Apr-25	AECOPD exacerbation

Order	Date Requested For	Priority	Reason for Referral	Reason for Referral	Who	When	Reason for Referral	Additional Information
Consults - 4 item(s)								
<input checked="" type="checkbox"/> Transition Services	2016-Apr-18	Routine	Discharge...					
<input type="checkbox"/> Social Work Referral	T	Routine						
<input checked="" type="checkbox"/> Notify	2016-Apr-18				Family Doctor	About patient's...		
<input type="checkbox"/> Pharmacist Consult	T						Medication...	AECOPD...

Vaccines

Order	Dose	Unit	Route	Frequency	Start Priority	Indication	Indication	Additional Information
Vaccines - 2 item(s)								
<input type="checkbox"/> influenza vaccine inj	0.5	mL	IM	once	Routine			Only if during October to...
<input type="checkbox"/> pneumococcal polyvalent vaccine inj	0.5	mL	SUBCUTANEOUSLY / IM	once	Routine			For splenectomy, contact...

Drug Info

OK Cancel

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